

1 I CLAIM:

2 1. A bird seed collector comprising the following:

3 a. a frame system (100) comprising a two part frame (200) having securing
4 and supporting means to secure and support a reservoir (800); the reservoir (800)
5 comprised in part of a bag (810); the frame (200) securing and supporting means
6 permits the removal of the bag (810) from the frame;

7 b. the frame (200) and the (bag) are suspended from a suspension means
8 (600), beneath a bird feeder, by via cable, hook and hoop means (300, 400, 500);

9 c. the bag (810) having a bag top (840) and a bag bottom (830); opening and
10 closing means (850) at the bag bottom (830);

11 d. a bag opening (820) at the bag top (840) receives bird scattered from the
12 bird feeder.

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14 2. A bird seed collector of claim 1 further comprising:

15 a. the two part frame (200) having a top frame member (210) and a bottom
16 frame member (250);

17 b. the top frame member having a downward directed wedge means (230)
18 comprised of a top frame wedge means (230); the bottom frame member (250) has a
19 wedge receiving means (260) which is sized and shaped to receive the wedge means
20 (230).

21

22 3. A bird seed collector of claim 2 further comprising:

23 a. the top frame wedge means (230) is comprised of a downward directed
24 wedge means (230); the wedge receiving means (260) is comprised generally of a
25 grove shaped and sized to receive the wedge means (230).

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27 4. A bird seed collector of claim 3 further comprising:

28 a. the top frame wedge means (230) is comprised of a "V" or "U" wedge or
29 other shaped downward directed protrusions which are received into a wedge or other
30 shape protrusion wedge receiving means (260) shaped and sized to receive the top
frame wedge means (230);

1 b. the bag (810), proximal the bag top (840) and proximal a bag top perimeter
2 (845), is placed between the indicated top frame member (210) and the bottom frame
3 member (250); the bag top (840) and the bag (810), being composed of pliable or
4 flexible material, will be depressed, by the top frame wedge (230), into the bottom
5 frame wedge receiving means (260) effecting a friction securing means between the
6 bag (810) and the two part frame (200).

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8 5. A bird seed collector of claim 4 further comprising:

9 a. the two part frame (200) additionally secures the bag (810) with the frame
10 (200) via a clamping means provided by the top frame first clamp means (215) and
11 the top frame second claim means (217);

12 b. each of the top frame first clamp means (215) and the top frame second
13 claim means (217) extend outward from the top frame wedge means (230); the top
14 frame first clamp means (215) has a top frame clamp means first end (220) which is
15 distal from the top frame wedge means (230) and which forms a clamping means
16 generally cup or hook shaped toward the top frame wedge means (230); the top frame
17 second clamp means (217) has a top frame clamp means second end (222) which is
18 distal from the top frame wedge means (230) and which forms a clamping means
19 generally cup or hook shaped toward the top frame wedge means (230);

20 c. the top frame first clamp means (215) and the top frame second clamp
21 means (217) are formed from spring or elastic means materials such as plastics and
22 some metals; the spring component is such that the top frame clamp means first end
23 (220) and the top frame clamp means second end (222) may be urged out and up or
24 bowed out and up from the top frame wedge means (230) and, when forced
25 downward against the bottom frame member (250) and released, the spring function
26 will urge the receipt respectively by a bottom frame first clamp means (255) and
27 bottom frame second clamp means (257);

28 d. the bag (810) composed of cloth, vinyl and or plastics.

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30 6. A bird seed collector of claim 5 further comprising:

 a. a female to male interconnection between the top frame first clamp means

1 (215) and the top frame second clamp means (217) with the bottom frame first clamp
2 means (255) and bottom frame second clamp means (257) comprising securing
3 means of the bag (810) between the top frame member (210) and the bottom frame
4 member (250) via both friction and clamping forces;.

5 b. the bag bottom closing means (850) includes zipper, Velcro®, and similar
6 closing means;

7 c. the bag top (840) is distal to the bag bottom (830); the a bag top (840) at the
8 bag top opening (820) comprises the bag top perimeter (845); the two part frame
9 (200) receives the bag top (840) such that the bag top perimeter (845) is fully grasped
10 between the top frame member (210) and the bottom frame member (250); the bag
11 bottom opening (820) is closed or secured by the bag bottom closing means (850)
12 when the invention is in use to collect bird seeds; when the closing means (850) is
13 released or opened, the bag bottom opening (835) is revealed;

14 d. suspension means (600) is comprised of a suspension frame (610), which is
15 generally elongated and planar and generally will be constructed of a semi-rigid
16 material including wood, plastic and other construction materials including 1" X 2"
17 wood stock; suspension hook means (620), comprised of eye hooks (620) or other
18 hook means will receive hoop means (500) as the interconnection of the cable, hook
19 and hoop means (300, 400, 500) with the frame (200); hook means (400) affixed by
20 cable affixing means to the cable means (300) where the hook means (400) received
21 and supports the frame (200); hoop means (500) affixed by cable affixing means to
22 the cable means (300) where the hoop means (500) is received by suspension hook
23 means (620);

24 e. suspension mounting means (630) will be employed which will include
25 screws means (630) through the suspension frame (610) to a structure such as facie
26 board or a ceiling;

27 f. a suspension centering guide (640) is formed in the suspension frame (610)
28 and is centered in the suspension frame (610); the centering guide (610) is formed by
29 forming a "V" in the suspension frame (610) which will assist the consumer of the
30 invention in centering the suspension frame relative to the bird feeder; the centering
guide (640) will receive a hook means (650) which is employed to suspend the bird

1 feeder; the centering guide (640) insures the desired spacing between the suspension
2 hook means (620) and the bird feeder.

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4 7. A bird seed collector of claim 6 further comprising:

5 a. a bag annulus (832) is intermediate the bag top (840) and the bag bottom
6 (830) such that the bag (810) narrows from the bag top (840) to the bag annulus (832)
7 and the bag (810) generally enlarges from the bag annulus to the bag bottom (830).

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9 8. A bird seed collector of claim 7 further comprising:

10 a. the bag annulus (832) is has a annulus diameter of 3"; the bag (810) at the
11 bag bottom (830) is approximately 10" in diameter or the bag bottom closing means
12 (850) will measure approximately 10".

13

14 9. A bird seed collector of claim 6 further comprising:

15 a. the bag (810) interconnected, at the bag bottom (830) with a bottle (860)
16 with a threaded PVC joint (865);

17 b. the threaded PVC joint (865) having a threaded interconnection with the
18 bottle (860) and offering a joint (865) opening which receives the bag (810) at the
19 bag bottom (830) for interconnection between bag bottom (830) and joint (865)
20 generally by interconnection means (870).

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22 10. A bird seed collector of claim 9 further comprising:

23 a. interconnection means (870) comprised of glue means (870) such as hot
24 glue.

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26 11. A bird seed collector of claim 8 further comprising:

27 a. the suspension frame (610) is pre-drilled to receive a suspension wire (650)
28 which is affixed by bending means to the suspension frame (610) and formed to
29 provide a suspension aperture (660) capable of receiving a branch or some other
30 protruding structure;

b. the top frame member (210) has one or more upward projecting eyelets

(450) molded as an integral part of the top frame member (210) or one or more upward projecting eyelets (450) are affixed by eyelet (450) affixing means to the top frame member (210).

12. A bird seed collector of claim 11 further comprising:

a. cable means (300) comprised of chain (300) which is received through each of the one or more eyelets (450) with a clip hook (410) at a chain end (310) which clips into a link of the chain (300) intermediate the frame (200) and the suspension means (600) or cable means (300) is comprised of a belting means (300) with a belting buckle (415) at a belting means end (310) which secures the belting means (300) intermediate the frame (200) and the suspension means (600).

13. A bird seed collector of claim 9 further comprising:

a. the suspension frame (610) is pre-drilled to receive a suspension wire (650) which is affixed by bending means to the suspension frame (610) and formed to provide a suspension aperture (660) capable of receiving a branch or some other protruding structure;

b. the top frame member (210) has one or more upward projecting eyelets (450) molded as an integral part of the top frame member (210) or one or more upward projecting eyelets (450) are affixed by eyelet (450) affixing means to the top frame member (210).

14 A bird seed collector of claim 13 further comprising:

a. cable means (300) comprised of chain (300) which is received through each of the one or more eyelets (450) with a clip hook (410) at a chain end (310) which clips into a link of the chain (300) intermediate the frame (200) and the suspension means (600) or cable means (300) is comprised of a belting means (300) with a belting buckle (415) at a belting means end (310) which secures the belting means (300) intermediate the frame (200) and the suspension means (600).

15. A bird seed collector of claim 4 further comprising:

1 a. the bag bottom closing means (850) includes zipper, Velcro®, and similar
2 closing means;

3 b. the bag top (840) is distal to the bag bottom (830); the a bag top (840) at
4 the bag top opening (820) comprises the bag top perimeter (845); the two part frame
5 (200) receives the bag top (840) such that the bag top perimeter (845) is fully grasped
6 between the top frame member (210) and the bottom frame member (250); the bag
7 bottom opening (820) is closed or secured by the bag bottom closing means (850)
8 when the invention is in use to collect bird seeds; when the closing means (850) is
9 released or opened, the bag bottom opening (835) is revealed;

10 c. suspension means (600) is comprised of a suspension frame (610), which is
11 generally elongated and planar and generally will be constructed of a semi-rigid
12 material including wood, plastic and other construction materials including 1" X 2"
13 wood stock; suspension hook means (620), comprised of eye hooks (620) or other
14 hook means will receive hoop means (500) as the interconnection of the cable, hook
15 and hoop means (300, 400, 500) with the frame (200); hook means (400) affixed by
16 cable affixing means to the cable means (300) where the hook means (400) received
17 and supports the frame (200); hoop means (500) affixed by cable affixing means to
18 the cable means (300) where the hoop means (500) is received by suspension hook
19 means (620);

20 d. suspension mounting means (630) will be employed which will include
21 screws means (630) through the suspension frame (610) to a structure such as facie
22 board or a ceiling;

23 e. a suspension centering guide (640) is formed in the suspension frame (610)
24 and is centered in the suspension frame (610); the centering guide (610) is formed by
25 forming a "V" in the suspension frame (610) which will assist the consumer of the
26 invention in centering the suspension frame relative to the bird feeder; the centering
27 guide (640) will receive a hook means (650) which is employed to suspend the bird
28 feeder; the centering guide (640) insures the desired spacing between the suspension
29 hook means (620) and the bird feeder.

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16. A bird seed collector of claim 15 further comprising:

1 a. a bag annulus (832) is intermediate the bat top (840) and the bag bottom
2 (830) such that the bag (810) narrows from the bag top (840) to the bag annulus (832)
3 and the bag (810) generally enlarges from the bag annulus to the bag bottom (830).
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5 17. A bird seed collector of claim 16 further comprising:

6 a. the bag annulus (832) is has a annulus diameter of 3"; the bag (810) at the
7 bag bottom (830) is approximately 10" in diameter or the bag bottom closing means
8 (850) will measure approximately 10".
9

10 18. A bird seed collector of claim 17 further comprising:

11 a. the bag (810) interconnected, at the bag bottom (830) with a bottle (860)
12 with a threaded PVC joint (865);

13 b. the threaded PVC joint (865) having a threaded interconnection with the
14 bottle (860) and offering a joint (865) opening which receives the bag (810) at the
15 bag bottom (830) for interconnection between bag bottom (830) and joint (865)
16 generally by interconnection means (870).
17

18 19. A bird seed collector of claim 18 further comprising:

19 a. interconnection means (870) comprised of glue means (870) such as hot
20 glue.
21

22 20. A bird seed collector of claim 17 further comprising:

23 a. the bag annulus (832) is has a annulus diameter of 3"; the bag (810) at the
24 bag bottom (830) is approximately 10" in diameter or the bag bottom closing means
25 (850) will measure approximately 10".
26

27 21. A bird seed collector of claim 20 further comprising:

28 a. the bag (810) interconnected, at the bag bottom (830) with a bottle (860)
29 with a threaded PVC joint (865);

30 b. the threaded PVC joint (865) having a threaded interconnection with the
bottle (860) and offering a joint (865) opening which receives the bag (810) at the

1 bag bottom (830) for interconnection between bag bottom (830) and joint (865)
2 generally by interconnection means (870).
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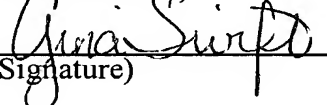
4 22. A bird seed collector of claim 21 further comprising:

5 a. interconnection means (870) comprised of glue means (870) such as hot
6 glue.
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